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PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

20-Dec-2010

Company: 116819

Room/Area ID: Reference #:



 Sales Order #:
 C002726

 CCC Panel #:
 P68762

 Date In:
 16-Nov-2010

 Date Out:
 30-Nov-2010

Days In Service: 14

CCC Panel # P68762

ISA Class G2 Moderate

Copper Corrosion 866 Å/30 Days

Silver Corrosion 481 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68762

The electrolytic reduction analysis on Corrosion Classification Coupon #P68762 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

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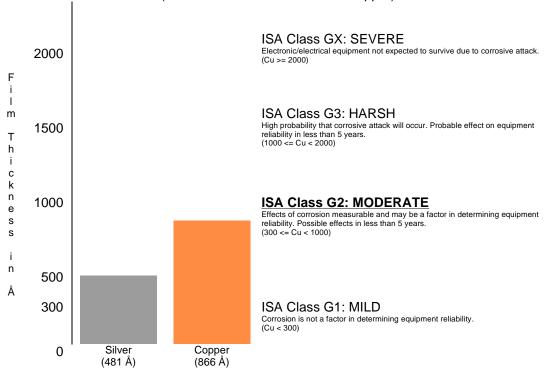
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PURAFIL CCC # P68762 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	469 Å	1636 Å	3658 Å	
Unknowns Totals	397 Å 866 Å	1384 Å 3020 Å	3096 Å 6754 Å	
Silver Films				
AgCl Ag ₂ S	62 Å 281 Å	757 Å 3416 Å	3785 Å 17082 Å	
Unknowns Totals	138 Å 481 Å	1680 Å 5853 Å	8402 Å 29269 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



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